COMPLETE LIST OF CLAIMS

Claim 1 (original) A method of indicating the angular position of a rotatable 1 2 member comprising the steps of: 3 taking a magnet, 4 mounting the magnet on a rotatable member, 5 taking a stator formed of magnetic material, 6 configuring the stator to direct the magnetic field to form a first angular 7 location of the stator in which the strength of the magnetic field varies with the angular 8 position of the rotatable member and a second angular location of the stator in which the 9 strength of the magnetic field is generally constant and independent of the angular 10 position of the rotatable member, 11 sensing the magnetic field in the first angular location and providing an 12 electrical output signal proportional to the strength of the field in the first angular location 13 as an indication of the angular position of the rotatable member, 14 sensing the magnetic field in the second angular location and providing an 15 electrical output signal proportional to the strength of the field in the second angular 16 location as an indication of the decay in the magnetic field of the magnet portions. 1 Claim 2 (original) A method according to claim 1 further comprising the step of 2 compensating the first electrical output signal for decay of the magnet portions by using 3 the second electrical output signal as a correction factor. 1 Claims 3-7 (canceled). 1 Claim 8 (original) A magnetic position sensor comprising: 2 a stator formed of magnetic material, 3 a rotatable coupling member mounting first and second magnets for rotation 4 about the stator in magnetic field communicating relationship therewith, the magnets 5 being fixed diametrically opposed to each other and having the poles in reverse 6 orientation relative to each other along the diametrical direction, the magnets being 7 movable along a rotation path between two opposite extremities,

8	the stator formed of discrete, separated portions having a first air gap in which		
9	the magnetic field varies in dependence upon the angular position of the magnet		
0	portions,		
1	a first Hall Effect sensor mounted in the first gap having a first electrical output		
2	signal corresponding to the angular position of the magnet portions along the rotational		
3	path, and		
4	a second Hall Effect sensor having a second electrical output signal fixedly		
5	mounted in magnetic field communication relationship with the magnetic field of the		
6	magnets at a location at which the magnetic field is generally constant, independent of		
7	the angular position of the magnet portions.		
1	Claim 9 (original) A position sensor according to claim 8 in which a second air		
2	gap is formed in the stator at a location out of alignment with the magnet portions and		
3	the second Hall Effect sensor is located in the second gap.		
1	Claim 10 (original) A position sensor according to claim 8 in which the rotatable		
2	coupling member includes a tubular yoke of magnetic material.		
1	Claim 11 (original) A position sensor according to claim 8 further comprising a		
2	tubular yoke of magnetic material defining a space in which the rotatable coupling		
3	member and stator are received.		
1	Claim 12 (original) A position sensor according to claim 11 in which the second		
2	Hall Effect sensor is located in an air gap formed between the magnet portions and the		
3	tubular yoke.		
	Claims 13 14 (consoled)		
	Claims 13 – 14 (canceled)		
1	Claim 15 (original) A position sensor comprising:		
2	a stationary tubular shaped yoke formed of magnetic material,		
3	a rotatable coupling member having a center of rotation,		
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first and second movable, arcuately shaped magnets mounted in fixed, diametrically opposed relation to each other on the coupling member and being disposed within and being evenly spaced from the tubular shaped yoke, the magnets each having one side facing toward the yoke and another side facing toward a center of rotation of the coupling member,

first and second stator elements formed of magnetic material, each stator element having an arcuately shaped outer periphery radially spaced from a respective arcuately shaped magnet on the side of the magnet facing the center of rotation, first and second stator elements being spaced from one another forming a first air gap,

the coupling member rotatable to move the magnets between first and second extremities in an open space between the yoke and the stator elements,

a first Hall Effect sensor having a first electrical output disposed in the first air gap exposed to magnetic flux which varies with the rotatable position of the magnets and a second Hall Effect sensor having a second electrical output disposed in a location at which the magnetic flux which is essentially independent of the position of the magnets.

Claim 16 (original) A position sensor according to claim 15 in which the second Hall Effect sensor is disposed between the yoke and a magnet in spaced apart relation thereto.

Claim 17 (original) A position sensor according to claim 15 in which the tubular shaped yoke is split into first and second spaced apart yoke portions defining a second air gap between the spaced apart yoke portions and the second Hall Effect sensor is disposed in the second air gap.